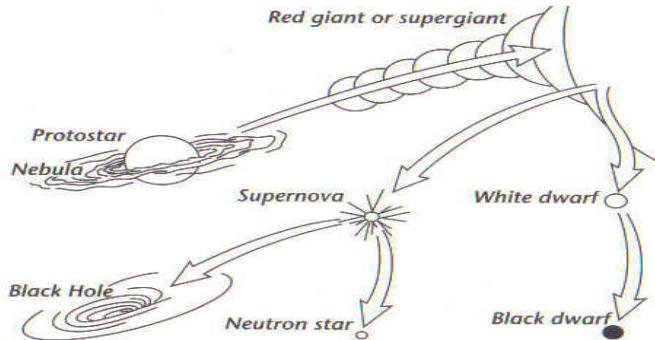


Student: _____ Per: _____ Date: _____

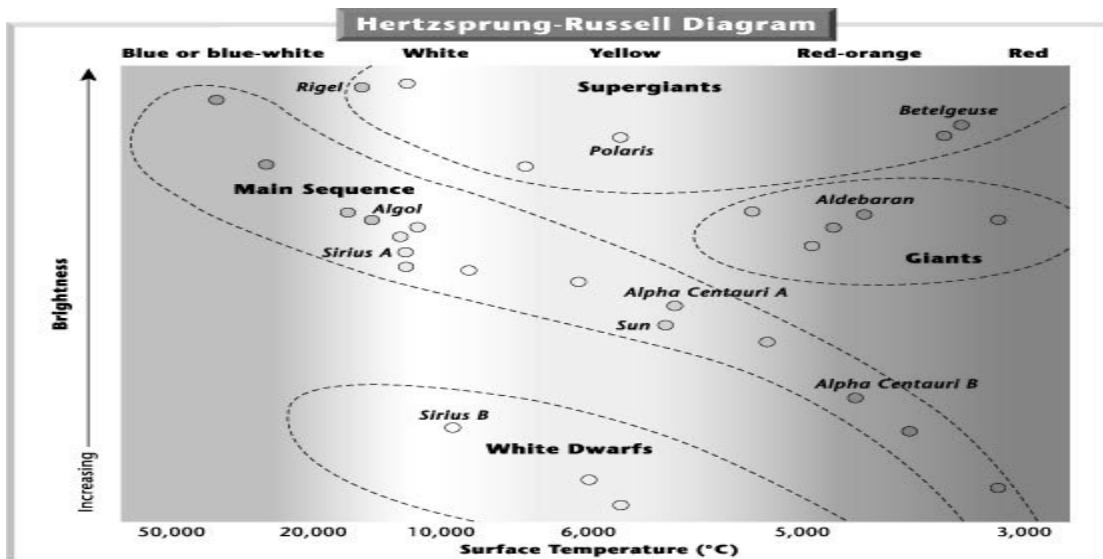
The Universe Test Review, Unit 6

1. Our star is a _____ sized star called the _____.
2. How are stars classified?
3. Compare and contrast the three types of galaxies:
4. What is a nebula?
5. What is a light-year? What is it used for?
6. What holds matter in the Universe together?
7. At what point in the star's life cycle do we say that a star is born?
8. It takes _____ minutes for the sun's light to reach Earth. Therefore, the sun is less than or greater than one light year from Earth. (Circle one)
9. List the colors of stars from hottest to coolest:
10. What are red giants and red super giants?
11. What is a supernova?
12. What is the support for the Big Bang Theory?
13. How are reflecting and refracting telescopes alike? How are they different?
14. Compare and contrast a revolution and a rotation:
15. High or low mass stars live longer? (Circle one). What determines the lifespan of stars?
16. What is a Black Hole?
17. What is parallax?
18. Galaxies are made of _____.
19. Be able to recognize spiral, irregular, and elliptical galaxies.
20. How do Astronomer's detect a black hole?
21. Be able to look at the spectral data of an element and determine if a star contains that element.
22. What type galaxy is the Milky Way?
23. Where is the Hubble Space Telescope located? How can it see so clearly?
24. If a star is 10.5 light years away, how long will it take a ray of light from that star to reach Earth?
25. Name 5 sizes of stars from smallest to largest.
26. Be able to read and interpret data tables, graphs, and charts such as the ones on the next page. Be able to use the data to answer questions.

PLANET	DISTANCE FROM SUN (millions of km)	PERIOD OF REVOLUTION	PERIOD OF ROTATION	SURFACE GRAVITY (compared to Earth)	ORBITAL VELOCITY (km/sec)
Mercury	7.9	88 days	59 days	0.38	47.8
Venus	108.2	224.7 days	243 days	0.91	35.0
Earth	149.2	365.24 days	24 hours	1.00	29.8
Mars	227.9	687 days	25 hours	0.38	24.2
Jupiter	778.3	11.86 years	10 hours	2.53	13.1
Saturn	1,427.0	29.46 years	12 hours	1.07	9.7
Uranus	2,871.0	84 years	17 hours	0.92	6.8
Neptune	4,497.0	165 years	16 hours	1.18	5.4
Pluto	5,914.0	248 years	7 days	0.09	4.7



27. What does the above diagram illustrate? Be able to trace the life cycle of a low/medium mass star and a high mass star.



28. What is the relationship between surface temperature and brightness of Main Sequence stars.

29. The pictures show groups of stars (constellations) in the night sky at 6:00 P.M., 8:00 P.M., and 10:00 P.M. Which of these is most responsible for these apparent changes?

- A. Expansion of the Universe
- B. Light bending as it enters the atmosphere
- C. Earth rotating on its axis
- D. Earth orbiting around the sun

